



Environmental  
Quality

Facility Permit No: SLAS-18-01  
A Sani-Can  
Permit to Operate  
January 16, 2016  
Page 1 of 4

## North Carolina Department of Environmental Quality

Pat McCrory  
Governor

Donald R. van der Vaart  
Secretary

STATE OF NORTH CAROLINA  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
DIVISION OF WASTE MANAGEMENT  
SOLID WASTE SECTION

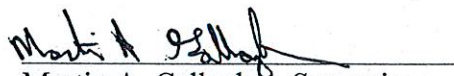
### PERMIT TO OPERATE A SEPTAGE LAND APPLICATION SITE

A Sani-Can  
Gary & Virginia Dellinger  
8151 Webbs Road  
Denver, NC 28037

is hereby permitted to operate Septage Land Application Site with permit # **SLAS-18-01** located on SR#1885 in Catawba County at approximate position 35.66644° N latitude and -81.01369° E longitude. This site is permitted only for operations that are conducted in accordance with the representations made in the approved application, with all conditions attached to this permit, and with all of the provisions of 15A NCAC 13B.0800 -- Septage Management. Failure to operate as permitted may result in the Department suspending or revoking this permit, initiating action to enjoin the unpermitted operation, imposing administrative penalties, or invoking any other remedy as provided in Chapter 130A, Article 1, Part 2 of the North Carolina General Statutes.

This permit shall be reviewed annually to determine if soil test results and management activities are in compliance with the Septage Management Rules and the conditions of this permit. Modifications, where necessary, shall be made in accordance with rules in effect at the time of review.

Date Issued 1/16/2016

  
Martin A. Gallagher, Supervisor  
Composting & Land Application Branch,  
Solid Waste Section  
Division of Waste Management, NCDEQ

## CONDITIONS OF OPERATING PERMIT

1. This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards of both surface and ground waters.
2. This site shall be operated and maintained in accordance with the nutrient management plan submitted by Gary & Virginia Dellinger and approved by the Division of Waste Management. **The 65.66-acre site shall be divided into Field 1 (9.26 acres), Field 2 (21.08 acres), Field 3 (9.99 acres), Field 4 (9.22 acres) and Field 5 (16.11 acres).** The mandatory 30-day waiting period between the last application of septage and the harvest/grazing of a crop shall be maintained. All discharges shall be at locations on the site consistent with the crop rotation in the approved plan. **Field 1 shall not be used for land application until the paddocks have been removed, a pre-operational inspection has been performed and Field 1 has been approved by the Division for land application to occur.**
3. This site shall be operated and maintained in accordance with the erosion and runoff control plan submitted by Gary & Virginia Dellinger in such a manner as to prevent the migration of wastes off of the designated waste receiving site. Any site improvements noted in the plan must be installed within 30 days of plan approval. The installation of groundwater monitoring wells shall be required as deemed necessary by the Division.
4. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other local, state, and federal government agencies which have jurisdiction. It is the responsibility of the Permittee to be in compliance with the Federal Regulations listed in the Code of Federal Regulations, 40 CFR Part 503.
5. This permit may be modified or reissued at any time to incorporate any conditions, limitations, and/or monitoring requirements the Division deems necessary to adequately protect the environment and public health.
6. **This site is only permitted for the land application of domestic septage (including portable toilet waste) and grease septage.** Domestic septage pH shall be raised to 12 or higher by alkali addition and, without the addition of additional alkali, shall remain at 12 or higher for 30 minutes prior to land application. Grease septage or grease septage

mixed with domestic septage shall be raised to pH 12 or higher by alkali addition and, without the addition of additional alkali, shall remain at 12 or higher for 2 hours prior to land application. Grease septage when applied over perennial vegetation shall be diluted per NC Septage Management Rule 15A NCAC 13B .0838(a)(15).

7. **This site contains approximately 65.66 acres that are available for land application of septage.** The maximum annual application rate shall be 50,000 gallons per acre per year. At this application rate, a maximum annual volume of 3,283,000 gallons may be applied to this site. **However, the current maximum annual application rate shall be 2,820,000 gallons (in regards to 56.40 acres) until Field 1 is approved for land application.** The maximum annual application rate assumes equal septage distribution, on an annual basis, over the entire permitted area. Application rates to the disposal fields shall not exceed the maximum annual application rate or the monthly application rates as listed in the approved nutrient management plan for the site.
8. An approved above ground septage detention system with a minimum design capacity of 63,134 gallons shall be available prior to operation of this site unless an approved wastewater treatment plant is available for use during periods of adverse weather. The storage capacity may be adjusted if it is demonstrated during the operation of the site that this volume of storage is inappropriate.
9. Only the area designated on the attached site map shall be utilized for septage disposal. Each load of septage discharged at the site shall be distributed from a moving vehicle in such a manner that there is no standing water when the discharge is complete.
10. Septage shall not be applied during any precipitation event, or if there is standing water on the soil surface, if the soil surface is frozen, or if the soil surface is snow covered. The Permittee shall consider pending weather conditions when making the decision to land apply in order to prevent any discharge of septage outside of the permitted boundary.
11. Septage shall not be applied during periods of high soil moisture. Septage applications that will result in ruts greater than three inches in the soil surface are prohibited.
12. Any discharge of septage outside of the permitted boundaries via runoff, aerial drift, etc. is prohibited.
13. This permit shall become voidable unless the land application activities are carried out in accordance with the conditions of this permit and in the manner approved by this

Division. No one other than the Permittee or an employee of the firm named in this permit shall discharge septage at this site without prior appropriate notification and written approval from the Division.

14. Prior to any transfer of this land, a notice shall be given to the new owner that gives full details of the materials applied or incorporated at this site. The Division shall be notified prior to site closure. This permit is non-transferable.
15. **This permit shall expire on January 16, 2021.** Modifications, when necessary, shall be made in accordance with the rules in effect at the time of renewal. An application for permit renewal shall be submitted at least ninety (90) days prior to the permit renewal date. A septage application log for the period of time this permit was valid shall be submitted along with an application for permit renewal or modification. The information required in the log is described in Rule 15A NCAC 13B .0838(e)(1) of the NC Septage Management Rules and the Code of Federal Regulations, 40 CFR Part 503.17(b).
16. Records shall be kept in accordance with 40 CFR 503.17(b). These records shall be made available to a representative of the Division upon request.
17. Any duly authorized officer, employee, or representative of the Division may, upon presentation of credentials, enter and inspect any property, premises, or place on or related to the disposal site and facility at any reasonable time for the purpose of determining compliance with this permit; may inspect or copy any records that must be kept under the conditions of this permit; or may obtain samples of groundwater, surface water, or leachate.
18. Field separations in the nutrient management plan and all pertinent setbacks shall be clearly located on the site. Boundaries of the permitted septage land application fields shall be clearly marked on the ground.
19. The areas that can be used for land application of septage shall be maintained to meet the minimum setback distances as described in NC Septage Management Rule 15A NCAC 13B .0837(d) such as 500 feet from any existing wells, residences, places of business, or places of public assembly. Also, septage shall not be disposed of within 50 feet of any property line, within 100 feet of any ditch or within 200 feet of any surface water unless specified otherwise.



Waste Management  
ENVIRONMENTAL QUALITY

PAT MCCRORY  
*Governor*

DONALD R. VAN DER VAART  
*Secretary*

LINDA CULPEPPER  
*Director*

January 16, 2016

Gary & Virginia Dellinger  
A Sani-Can  
8151 Webbs Road  
Denver, NC 28037

RE: **SLAS permit renewal**  
**A Sani-Can**  
**SLAS-18-01**  
**SR#1885 in Catawba County**

Dear Mr. Dellinger:

The NC Division of Waste Management has reviewed your renewal application for a Septage Land Application Site permit in Catawba County. Your application has been approved and your permit, # **SLAS-18-01**, is enclosed. If you have any questions about your permit, we'll need the number in order to answer your questions.

Please read all of your permit conditions carefully. Your nutrient management and soil erosion and runoff control plans have been included in your permit's conditions. In particular, review Permit Condition 15, which states that you will need to submit septage application logs for your site in order to renew your permit. These logs need to cover the entire time your current permit is valid. For details on the information you should include, consult the NC Septage Management Rule 15A NCAC 13B .0838(e)(1) and the Federal register's 40CFR Part 503.17(b). This permit condition also states that this permit is valid until **January 16, 2021**. If you have any questions, please ask for assistance as rule violations could expose you to administrative penalties.

Please note that to land apply industrial or commercial septage at a permitted septage disposal site you must have **prior approval** from the NC Division of Waste Management. The waste must be sampled prior to being removed from the system. Generally, the Division will request that you have a waste analysis run on septage from each commercial or industrial septage generator before that type of septage is approved for land application.

Use of a land application site or septage detention or treatment facility that is not permitted may result in administrative penalties up to \$15,000 per violation in accordance with NC General Statute 130A-22.

If you have any questions, please contact me at (910) 433-3352 or Martin Gallagher at (919) 707-8280.

Sincerely,

A handwritten signature in black ink, appearing to read 'C. S. Wylie'.

Connie S. Wylie, Soil Scientist  
Division of Waste Management, NCDEQ

Enclosures

cc: files

Catawba County Health Department

h:\cl\septage\slasper\1801cl16p.doc

# APPLICATION FOR A PERMIT TO OPERATE A SEPTAGE LAND APPLICATION SITE

North Carolina Department of Environment and Natural Resources  
Division of Waste Management – Solid Waste Section  
1646 Mail Service Center, Raleigh, NC 27699-1646

## I. Site and Operator Information

1. Applicant A Sani-Can Service, Inc.  
Address 8151 Webb's Rd  
Denver NC 28037  
Phone 704 483 5641
2. Contact person for site operation (if different from applicant):  
Title or position Secretary Phone 704 483 5641  
Address 8151 Webb's Rd  
Denver NC 28037
3. Landowner Gary & Virginia Dellinger  
Address 965 Hopewell Church Rd  
Catawba NC 28609

- 1-30-15 [Signature]
4. Site Location: County Catawba State Road Number SR #1885  
Directions to site: from Sherrills Ford turn right on Joe Johnson Rd, right at stop sign onto Long Island Rd, pass Bolton, so 1/4 mi Right at wire fence (gravel rd) to end
- 1-30-15 [Signature]
5. Indicate whether request is: new \_\_\_\_\_ renewal X modification addition to existing

For a permit renewal or modification, provide the following information:

Existing site permit number: SLAS-18-01 permit expiration date: Oct. 9, 2014

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 17.6 acres.
7. Substances other than septage or grease trap pumpings previously disposed of on the site:  
(a) None ✓, or (b) Attach a list indicating other substances, the amounts discharged, and the dates of discharge.
8. Attach written, notarized landowner authorization to operate a septage disposal site signed by the landowner (if the permit applicant does not own the property). **If a corporation owns the land use a corporate landowner authorization form. If limited liability company owns the land, use a limited liability company landowner authorization form.**
9. Attach site evaluation report, including aerial photograph and soil analysis with metals results, unless the Division prepared the report.
10. Attach a vicinity map (county road map showing site location).

(over)

II. Site Management Information:

The following information shall be included with the application form:

1. Nutrient Management Plan
2. Soil Erosion and Runoff Control Plan
3. Alternative plan for disposal (detention facility permit number or wastewater treatment plant authorization): SDTF 55-20
4. Types of septage proposed to be discharged at the site (check all that apply):
  - (a) Domestic septage pumped from septic tanks X
  - (b) Grease trap pumpings X
  - (c) Portable toilet waste X
  - (d) Commercial / Industrial septage \_\_\_\_\_
5. Proposed treatment method of each type of septage to be land applied (use additional paper to explain if necessary): Domestic septage & portable toilet waste will be lime stabilized to Ph 12 for at least 30 min. (Grease trap pumpings for at least 2 hrs.) and will be Ph 12 when land applied
6. Proposed method of applying septage to land, including septage distribution plan if required \* (use additional paper to explain if necessary): Septage & grease will be land applied utilizing a pressurized pump truck equipped with a splash plate for spreading.
7. Demonstration from the appropriate state or federal government agency that the land application site complies with the Endangered Species Law \*\* or if any part of the site specified is not agricultural land (use additional paper to explain if necessary): Site is agriculture land.

III. Certification

I hereby certify that:

1. The information provided on this application is true, complete, and correct to the best of my knowledge.
2. I have read and understand the N.C. Septage Management Rules, and
3. I am aware of the potential consequences, including penalties and permit revocation, for failing to follow all applicable rules and the conditions of a Septage Land Application Site permit.

Virginia Dellinger  
Signature\*\*\*

8-27-13

Date

Virginia Dellinger  
Print name

President  
Title

Note: This application will not be reviewed until all parts of the application are complete.

\* Refer to Section .0837(e) of the N.C. Septage Management Rules.

\*\* Refer to Section .0837(g) of the N.C. Septage Management Rules.

\*\*\*Signature of company official required.

S:\Solid\_Waste\ch\septage\forms\SLAS-Application & Authorization\SLAS Permit Application-Nov 2011.doc

1-30-15

NUTRIENT MANAGEMENT PLAN FOR  
SEPTAGE LAND APPLICATION SITE 18-01

A. General Information:

1. Field #1 contains approximately 9.26 acres.
2. Field #2 contains approximately 21.08 acres.
3. Field #3 contains approximately 9.99 acres.
4. Field #4 contains approximately 9.22 acres.
5. Field #5 contains approximately 16.11 acres.



3. The dominant soil series on the site is red clay.
4. Septage will not be applied where the site is untrafficable (untrafficable is defined as soil that will allow a loaded truck to leave a depression in sod greater than 3 inches in depth).
5. All nitrogen recommendations for forages will be 75% of the realistic yield expectation nitrogen rate should the forage be grazed.
6. Septage storage is provided at SDTF permit #55-20. The approximate capacity is 36,000 gallons.

B. Crops to be grown and approximate planting time:

1. Field #1,2,4, & 5, including buffer zones, are planted in fescue and matua grass.
2. Field #3, including buffer zones, is planted in switch and rye grass.

Areas in fields 1,2,4, & 5 with less than 85% groundcover will be re-seeded in September or early October with fescue and matua at a rate of 15 pounds per acre of matua and 10 pounds per acre of fescue. All seed will be drilled.

Matua will also be allowed to re-seed naturally. Two fields will be allowed to go to seed in the fall and two in the spring. The seed heads will be mowed to spread the seeds after they have dried.

Areas in field 3 with less than 85% groundcover will be re-seeded with 6 to 10 pounds per acre of pure live seed switch grass at a rate of 6 to 10 pounds per acre. The seed will be drilled in late spring.

C. Nitrogen needs for crops grown:

RYE= Realistic Yield Expectations

N App. Rate + Suggested N application rate based on RYE for soil type.

Crop	RYE	N. App.Rate	Reduction Factor	lbs.N/acre
Tall fescue/matua	4.5 tons/acre	x 45 lbs N/dry ton	x 0.75 =	150
Switch grass	4.5 tons/acre	x 45lbs. N/dry ton	x 0.75 =	150

D. Relative application rates for Fields 1 and 2:

Month	Field	
	1,2,4, & 5	3
January	Low	Low
February	Medium	Low
March	High	Low
April	High	Low
May	Medium	Medium
June	Low	High
July	Low	High
August	Low	High
September	Medium	Low
October	Medium	Low
November	Low	Low
December	Low	Low

None = 0 gallons; Low = 5,000 gallons

Medium = 10,000 gallons; High = 15,000 gallons

NOTE: Cumulative application rate is not to exceed the permitted application rate.  
Annual application rate is not to exceed 50,000 gallons per acre.

E. Application Method:

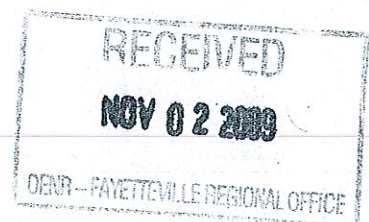
The preceding information is based on septage being evenly applied over the entire permitted site from the back of a pump truck using a splash plate.

F. Additional Fertility Requirements:

Phosphorus and potassium will be added to the site in accordance with the soil test results for the crops grown.

The buffer areas will be fertilized with a balanced fertilizer to maintain production based on soil test results.

G. Harvest of the crops and their use:




The primary harvest method will be grazing. Cattle will be rotated from field to field based on the growth stage of the grass in each field. The grazing height for switch grass will be a maximum of 12 inches. For fescue grass the maximum grazing height will be 8 inches. Cattle will not be placed in a field until at least 30 days after the last land application event.

In the event that the cattle cannot keep the fields adequately grazed, the hay will be cut, baled, and removed from the application and buffer areas. Hay will not be cut until at least 30 days after the last land application event. Hay will not be cut until ten to twelve inches of height is reached.

### SOIL EROSION AND RUNOFF CONTROL PLAN

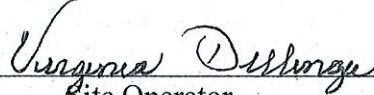
Given that slopes on this site do not exceed five percent, a 50 foot buffer, planted in fescue, should suffice to prevent septage waste from migrating off of the fields. ( More severe site conditions could require that soil erosion structures be installed before septage can be applied).

Submitted by:

  
Site Operator

Date 10-9-09

Submitted by:

  
Site Operator

Date 10-9-09

Plan prepared by:

Gary Dellinger

Date 10/9/09


Address:

8151 Webbs Road

Denver, NC 28037

Phone:

704-483-5641

  
1-30-15

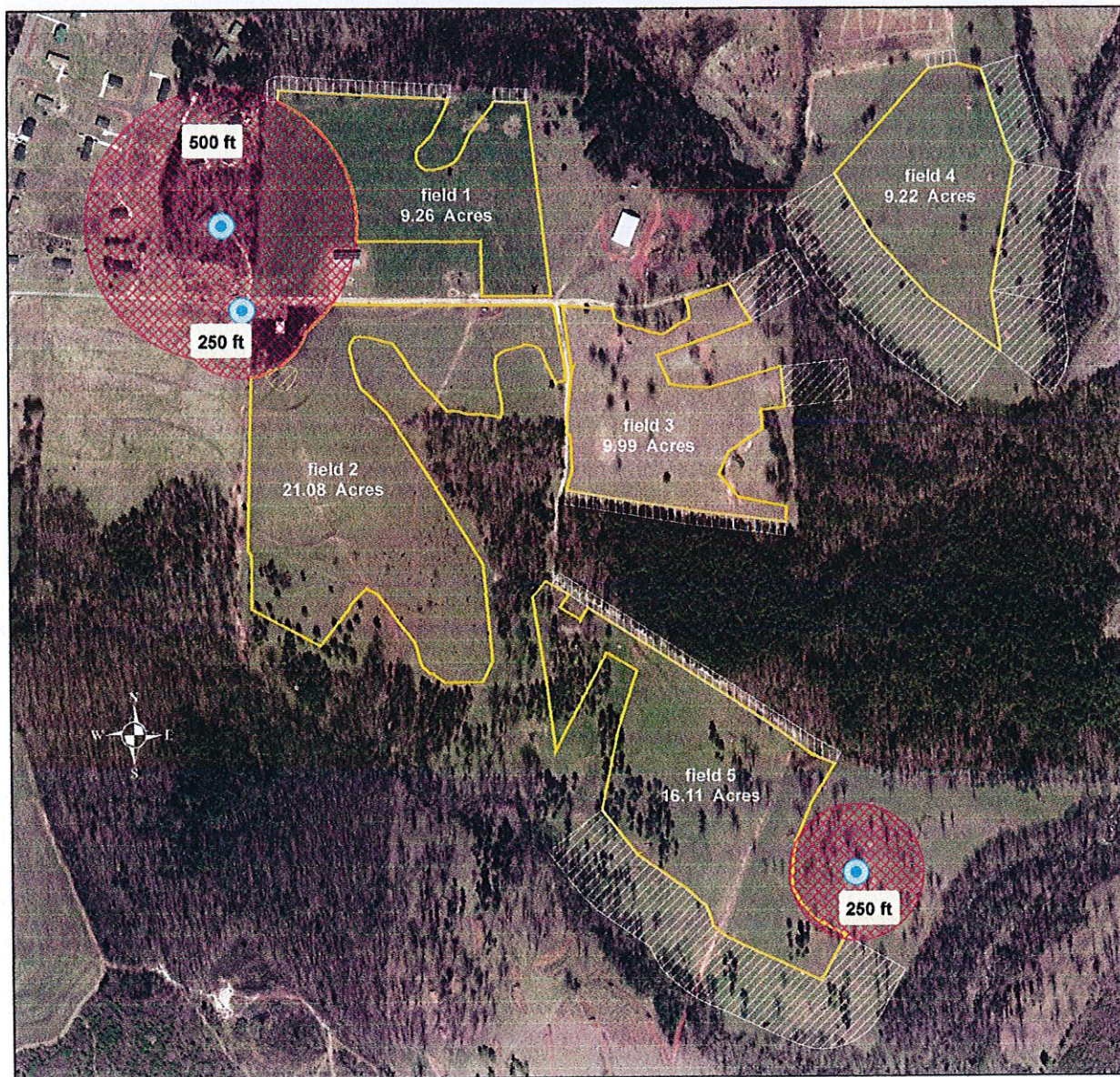
RECEIVED

NOV 02 2009

JEVH - WETTEVILLE REGIONAL OFFICE

# SLAS-18-01

35.66644° N latitude  
-81.01369° E longitude



## Legend

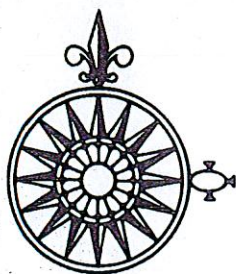
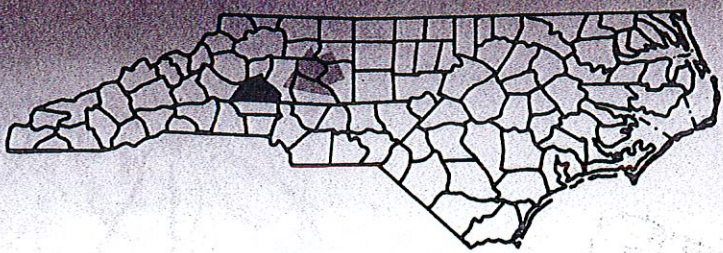
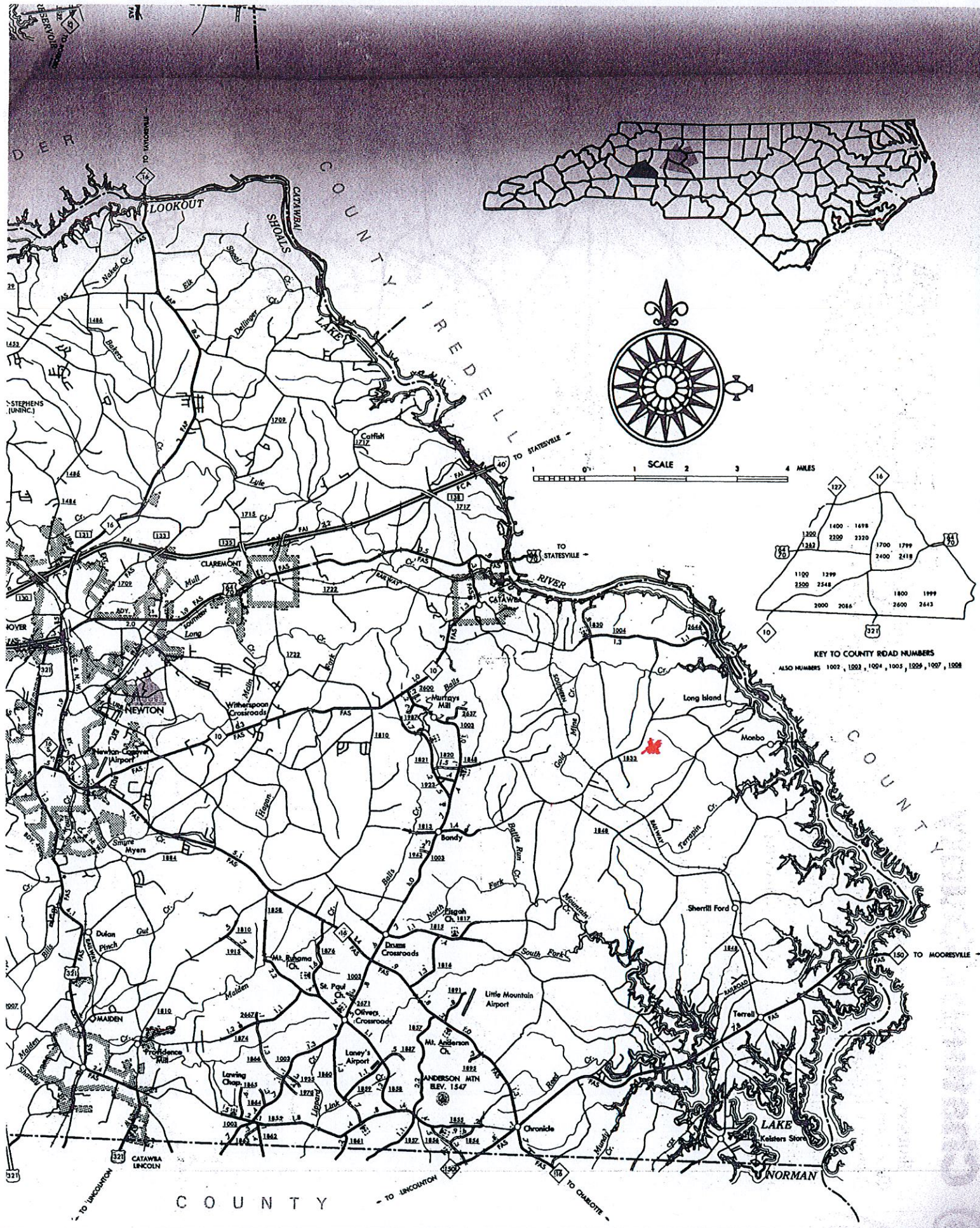
- Wells
- 50 ft Setback
- 150 ft Setback
- 250 ft Setback
- Well Setback
- Manure Pile

400 200 0 400 Feet

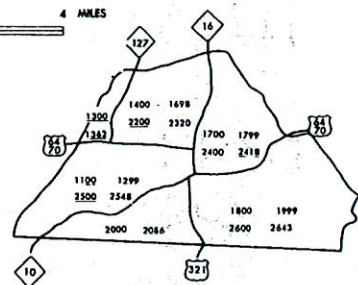
North American Datum 1983  
State Plane (feet) - North Carolina FIPS 3200

Source: NC OneMap([www.nconemap.com](http://www.nconemap.com)),  
Centralina Council of Governments (CCOG), and Catawba County GIS Department, 20060626,  
Natural Color Orthophotography for Catawba County, NC: EarthData International, Inc, Frederick, MD 21704.

Map created by NC DENR Division of Waste Management, Compost & Land Application Branch for permitting purposes only.



1 0 1 2 3 4 MILES



KEY TO COUNTY ROAD NUMBERS  
ALSO NUMBERS 1002, 1003, 1004, 1005, 1006, 1007, 1008